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DE 19840771A1 pp. 116-117 residues 335-339

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NPL 102(b)

Chen M, Pan ZQ, Hurwitz J.

Studies of the cloned 37-kDa subunit of activator 1 (replication factor C) of HeLa cells.

Proc Natl Acad Sci U S A. 1992 Jun 15;89(12):5211-5.

Residues 335-339

Goodner et al. (2001) science 2323-2328

Residues 516-520

Proc Natl Acad Sci U S A. 1998 Mar 31;95(7):3786-91.

A third distinct tumor necrosis factor receptor of orthopoxviruses.

Loparev VN, Parsons JM, Knight JC, Panus JF, Ray CA, Buller RM, Pickup DJ, Esposito JJ.

Residues 65-69

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WO200299061A WO199937298A1

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Proc Natl Acad Sci U S A. 1992 Jun 15;89(12):5211-5. PMID: 1351677 [PubMed - indexed for MEDLINE]

2: Chen M, Pan ZQ, Hurwitz J.

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Sequence and expression in Escherichia coli of the 40-kDa subunit of activator 1 (replication factor C) of HeLa cells.

Proc Natl Acad Sci U S A. 1992 Apr 1;89(7):2516-20.

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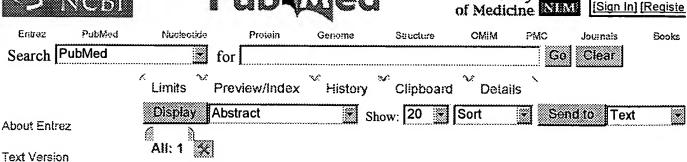
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Studies of the cloned 37-kDa subunit of activator 1 (replication factor C) of HeLa cells.

Chen M, Pan ZQ, Hurwitz J.

Graduate Program in Molecular Biology, Memorial Sloan-Kettering Cancer Center, New York, NY 10021.

The elongation of primed DNA templates by DNA polymerase delta and DNA polymerase epsilon requires the action of two accessory proteins, proliferating cell nuclear antigen and activator 1 (A1, also called replication factor C). A1 is an enzyme that contains five different subunits (145, 40, 38, 37, and 36.5 kDa). In this paper, we describe the isolation of the gene encoding the 37-kDa subunit from HeLa cells. This gene was cloned, sequenced, and overexpressed in Escherichia coli. The amino acid sequence shows a high degree of homology to the 40-kDa subunit of A1; they both contain the identical ATPbinding motif, but in contrast to the bacterial expressed 40-kDa protein, the 37-kDa expressed protein did not bind ATP. Both the 37- and 40-kDa proteins share substantial homology with the phage T4 gene 44 protein and to a lesser extent with the tau and gamma subunits of the E. coli DNA polymerase III holoenzyme. Polyclonal antibodies against the bacterially expressed 37- and 40-kDa proteins do not crossreact and are specific in their interaction. Antibodies against the 37-kDa protein maximally inhibited (by 50%) the A1dependent synthesis of DNA by DNA polymerase delta; antibodies against the 40-kDa protein quantitatively inhibited the same reaction. When A1dependent synthesis of DNA was partially inhibited by antibodies against the 40-kDa subunit, the addition of antibodies against the 37-kDa subunit inhibited DNA synthesis to a greater extent than the anti-37-kDa antibody alone. These results suggest that both the 37- and 40-kDa subunits of A1 are required for the biological role of A1 and that they may function differently in this process.

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A third distinct tumor necrosis factor receptor of orthopoxviruses.

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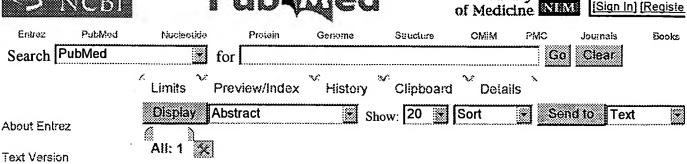
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A third distinct tumor necrosis factor receptor of orthopoxviruses.

Loparev VN, Parsons JM, Knight JC, Panus JF, Ray CA, Buller RM, Pickup DJ, Esposito JJ.

Poxvirus Section, Viral Exanthems and Herpesvirus Branch, Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA 30333, USA.

Cowpox virus Brighton red strain (CPV) contains a gene, crmD, which encodes a 320-aa tumor necrosis factor receptor (TNFR) of 44% and 22% identity, respectively, to the CPV TNFR-like proteins, cytokine response modifiers (crm) CrmB and CrmC. The crmD gene was interrupted in three other cowpox strains examined and absent in various other orthopoxviruses; however, four strains of ectromelia virus (ECT) examined contained an intact crmD (97% identity to CPV crmD) and lacked cognates of crmB and crmC. The protein, CrmD, contains a transport signal; a 151-aa cysteine-rich region with 21 cysteines that align with human TNFRII ligand-binding region cysteines; and C-terminal region sequences that are highly diverged from cellular TNFR C-terminal region sequences involved in signal transduction. Bacterial maltose-binding proteins containing the CPV or ECT CrmD cysteine-rich region bound TNF and lymphotoxin-alpha (LTalpha) and blocked their in vitro cytolytic activity. Secreted viral CrmD bound TNF and LTalpha and was detectable after the early stage of replication, using nonreducing conditions, as 60- to 70-kDa predominant and 90- to 250-kDa minor disulfide-linked complexes that were able to be reduced to a 46-kDa form and deglycosylated to a 38-kDa protein. Cells infected with CPV produced extremely low amounts of CrmD compared with ECT. Possessing up to three TNFRs, including CrmD, which is secreted as disulfide-linked complexes in varied amounts by CPV and ECT, likely enhances the dynamics of the immune modulating mechanisms of orthopoxviruses.

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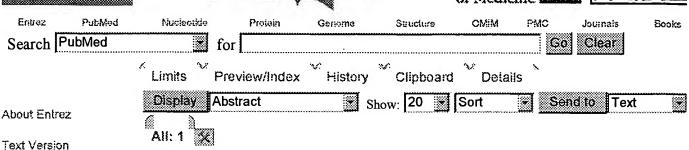
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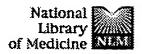
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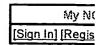
The amino acid sequences of both the alpha and beta subunits of human chorionic gonadotropin have been determined. The amino acid sequence of the alpha subunit is: Ala - Asp - Val - Gln - Asp - Cys - Pro - Glu - Cys-10 -Thr - Leu - Gln - Asp - Pro - Phe - Ser - Gln-20 - Pro - Gly - Ala - Pro - Ile -Leu - Gln - Cys - Met - Gly-30 - Cys - Cys - Phe - Ser - Arg - Ala - Tyr - Pro -Thr - Pro-40 - Leu - Arg - Ser - Lys - Lys - Thr - Met - Leu - Val - Gln-50 -Lys - Asn - Val - Thr - Ser - Glu - Ser - Thr - Cys - Cys-60 - Val - Ala - Lys -Ser - Thr - Asn - Arg - Val - Thr - Val-70 - Met - Gly - Gly - Phe - Lys - Val -Glu - Asn - His - Thr-80 - Ala - Cys - His - Cys - Ser - Thr - Cys - Tyr - Tyr -His-90 - Lys - Ser. Oligosaccharide side chains are attached at residues 52 and 78. In the preparations studied approximately 10 and 30% of the chains lack the initial 2 and 3 NH2-terminal residues, respectively. This sequence is almost identical with that of human luteinizing hormone (Sairam, M. R., Papkoff, H., and Li, C. H. (1972) Biochem. Biophys. Res. Commun. 48, 530-537). The amino acid sequence of the beta subunit is: Ser - Lys - Glu - Pro -Leu - Arg - Pro - Arg - Cys - Arg-10 - Pro - Ile - Asn - Ala - Thr - Leu - Ala -Val - Glu - Lys-20 - Glu - Gly - Cys - Pro - Val - Cys - Ile - Thr - Val - Asn-30 - Thr - Thr - Ile - Cys - Ala - Gly - Tyr - Cys - Pro - Thr-40 - Met - Thr -Arg - Val - Leu - Gln - Gly - Val - Leu - Pro-50 - Ala - Leu - Pro - Gin - Val -Val - Cys - Asn - Tyr - Arg-60 - Asp - Val - Arg - Phe - Glu - Ser - Ile - Arg -Leu - Pro-70 - Gly - Cys - Pro - Arg - Gly - Val - Asn - Pro - Val - Val-80 -Ser - Tyr - Ala - Val - Ala - Leu - Ser - Cys - Gln - Cys-90 - Ala - Leu - Cys -Arg - Arg - Ser - Thr - Thr - Asp - Cys-100 - Gly - Gly - Pro - Lys - Asp - His - Pro - Leu - Thr - Cys-110 - Asp - Asp - Pro - Arg - Phe - Gln - Asp - Ser -Ser - Ser - Ser - Lys - Ala - Pro - Pro - Pro - Ser - Leu - Pro - Ser-130 - Pro -Ser - Arg - Leu - Pro - Gly - Pro - Ser - Asp - Thr-140 - Pro - Ile - Leu - Pro -Gln. Oligosaccharide side chains are found at residues 13, 30, 121, 127, 132, and 138. The proteolytic enzyme, thrombin, which appears to cleave a limited number of arginyl bonds, proved helpful in the determination of the beta sequence.

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Two monoclonal antibodies recognize Alzheimer's neurofibrillary tangles, neurofilament, and microtubule-associated proteins.

## Ksiezak-Reding H, Yen SH.

Two monoclonal antibodies that recognize Alzheimer's neurofibrillary tangles (ANTs), AD10 and AB18, have been characterized by immunoblotting against human and calf spinal cord neurofilament (NF) and calf brain microtubule preparations. Both antibodies bind to the 200-kilodalton (kd) (NF-H) and 160kd (NF-M) but not to the 68-kd (NF-L) NF triplet proteins. They also bind to high-molecular-weight microtubule-associated proteins (MAPs) and tau. AD10 immunostains MAP2 and MAP1 families, whereas AB18 stains mainly MAP1 bands. Preincubation of intact filament preparation or nitrocellulose strips containing electroblotted NF proteins with Escherichia coli alkaline phosphatase completely blocks AD10 binding and partially blocks binding of AB18. These results suggest that the determinants recognized by these antibodies are phosphorylated. Immunoblotting of peptide fragments generated by limited proteolysis of NF proteins with alpha-chymotrypsin and Staphylococcus aureus V8 protease shows that the localization of the antigenic determinants to AD10 and AB18 in NF-H is approximately 100 and 60 kd, respectively, away from the carboxy terminal, a region previously shown to form the NF projection side arm. In NF-M, the antigenic determinants to both antibodies are located also in the projection side arm, in a 60-kd polypeptide adjacent to the alpha-helical filament core. The results show that ANTs contain at least two phosphorylated antigenic sites that are present in NF and MAPs, a finding suggesting that ANTs may be composed of proteins or their fragments with epitopes shared by cytoskeletal proteins.

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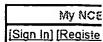
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Location of an epitope shared by Alzheimer's amyloid peptide and brain creatine kinase using a newly developed monoclonal antibody.

Cazorla P, Aldudo J, Haas C, Vazquez J, Valdivieso F, Bullido MJ.

Centro de Biologia Molecular Severo Ochoa (CSIC-UAM), Universidad Autonoma de Madrid, Spain.

Amyloid plaques, composed mainly by a peptide termed A4-amyloid, derived by proteolytic processing from the amyloid precursor protein (APP), are a hallmark in the brain of Alzheimer's disease patients. We have prepared a collection of monoclonal antibodies as tools to study APP expression and proteolysis in different systems. One of these, 5AH10, raised against residues 9-22 of A4-peptide, was selected for its ability to recognize only A4 subpeptides having the intact APP-secretase target sequence, as well as whole recombinant APP. By using synthetic subpeptides, we have located 5AH10 epitope between amino acids 15 and 22 of A4. In addition, 5AH10 showed a strong immunoreactivity to a 47 kDa protein present in rat brain extracts, that was identified as the B (brain specific) subunit of creatine kinase by immunochemical data and direct N-terminal sequencing. The cross-reaction observed is most probably due to a high degree of sequence identity between amino acids 15 to 22 of A4 peptide and amino acids 9 to 16 of rat B creatine kinase. 5AH10 did not recognize the muscle specific isoform (M subunit) of rat creatine kinase, nor the B subunit of human and rabbit creatine kinase, suggesting that glutamine at first position of the epitope is essential for antigen recognition by 5AH10.

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Acta Neuropathol (Berl). 1994;88(1):1-6. PMID: 7524261 [PubMed - indexed for MEDLINE]

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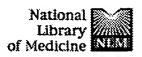
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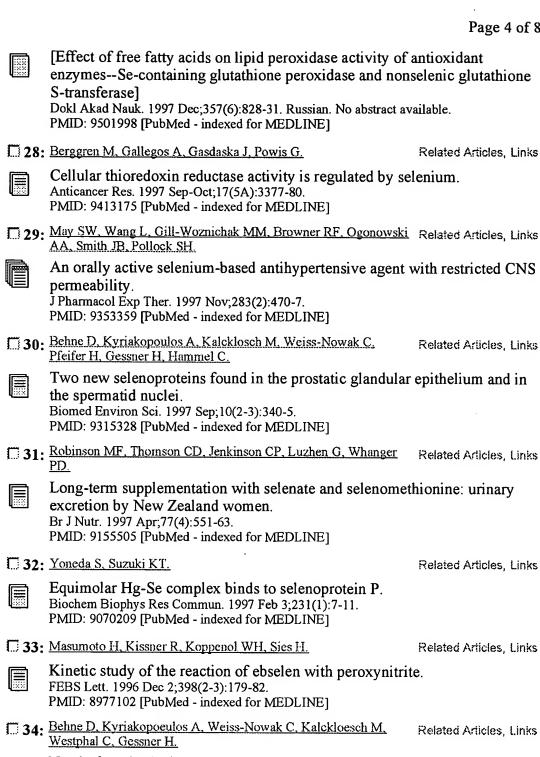
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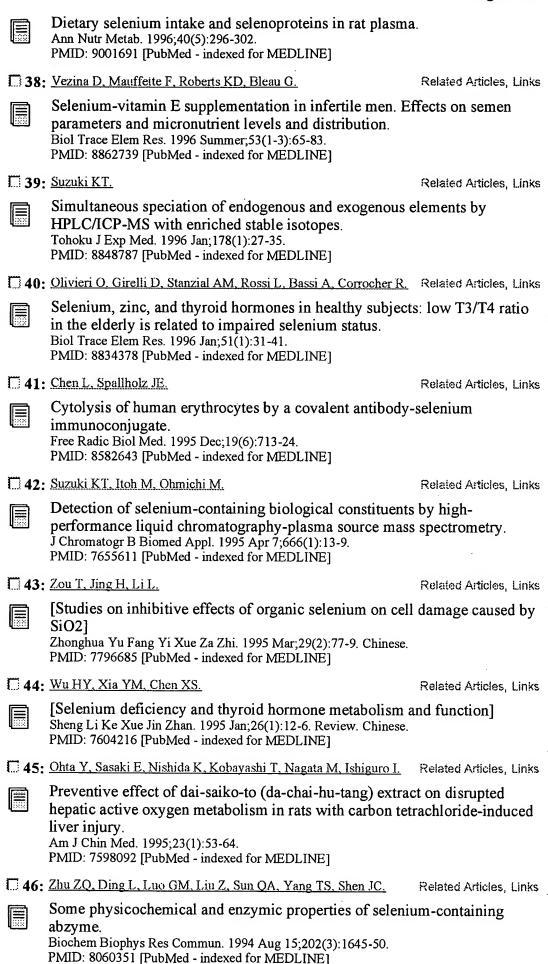
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                  3 DUP REM L1 (2 DUPLICATES REMOVED)
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12
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        10775114 IFIPAT; IFIUDB; IFICDB
AN
        METHODS AND COMPOSITIONS FOR THE TREATMENT OF MHC-ASSOCIATED CONDITIONS
TI
       Holoshitz Joseph; Ling Song
IN
       Michigan, University of (55176)
PΑ
PΙ
       US 2005013820
                            A1 20050120
                                   20040513
ΑI
        us 2004-845407
RLI
        US 2002-161959
                                   20020603 CONTINUATION-IN-PART
                                                                             PENDING
        US 2005013820
FT
                                   20050120
DT
       Utility; Patent Application - First Publication
FS
        CHEMICAL
        APPLICATION
CLMN
        18
GI
         17 Figure(s).
      FIG. 1 depicts the impaired cAMP signaling exhibited in shared
        epitope-expressing cells. FIG. 1A is a bar graph that shows PKA
        activation in different cell types, with or without forskolin
        stimulation. FIG. 1B shows PKA activation over time in different cells.
        FIG. 1C is a bar graph that shows relative PKA activation in different
        cells expressing different HLA DRB1 alleles.
      FIG. 2 depicts the experimental results confirming that inducible DNA repair signaling is transduced through a cAMPdependent pathway. FIG. 2A
       is a graph which shows DNA repair in the presence of different concentrations of 2CA. FIG. 2B is a graph that shows DNA repair in the presence of different concentrations of PGE1. FIG. 2C is a graph which
       shows DNA repair in the presence of different concentrations of
       forskolin. FIG. 2D is a graph that shows DNA repair in the presence of different concentrations of 8-Br-cAMP. FIG. 2E is a graph that shows DNA
       repair in the presence of different concentrations of enprofylline. FIG.
       2F is a graph that shows DNA repair in the presence of different
       concentrations of H-89. FIG. 2G is a graph that shows DNA repair in the
        presence of different concentrations of 8-Br-cGMP. FIG. 2H is a bar graph
      which shows DNA repair in the presence or absence of SNAP. FIG. 3 depicts the experimental results assessing the role of Gs
       protein-coupled receptors in the inducible DNA repair signaling. FIG. 3A shows DNA repair in HEK293/A2a transfectants in the presence of different concentrations of 2CA. FIG. 3B shows DNA repair in HEK293/A2b
       transfectants in the presence of different concentrations of 2CA. FIG. 3C
       is a bar graph that shows DNA repair in HEK293/A1 transfectants in the
       presence of different concentrations of 2CA and CAMP.
      FIG. 4 depicts the experimental results demonstrating that shared
       epitope-expressing DRB1 alleles have a direct inhibitory effect on
      cAMP-dependent signaling. FIG. 4A is a graph showing DNA repair over time in two transfected cell lines. FIG. 4B is a bar graph which shows DNA repair in different L cell transfectants.

FIG. 5 is a bar graph that depicts the experimental results demonstrating that shared epitope-containing peptides inhibit cAMP-mediated DNA repair.

FIG. 6 is a bar graph that depicts the experimental results demonstrating the inhibition of cAMP-mediated inducible DNA repair.
       the inhibition of camp-mediated inducible DNA repair by shared
       epitope-containing peptide-conjugated beads.
      FIG. 7 is an alignment that depicts shared epitope homologies in several
       proteins.
      FIG. 8 is a bar graph which depicts the inhibition of CAMPdependent DNA
       repair by shared epitope-containing, non DR beta proteins.
      FIG. 9 is a bar graph that depicts the results of experiments carried out
       to determine the shared epitope motif.
```

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FIG. 10 presents a characterization of shared epitope-triggered intracellular signaling. FIG. 10A shows cAMP levels in the presence of
 different concentrations of 2CA and after preincubation with different
 peptide-conjugated beads. FIG. 10B shows PKA activity following
 preincubation with different peptide-conjugated beads. FIG. 10C shows NO levels following preincubation with different peptide-conjugated beads. FIG. 10D shows cGMP levels following exposure to different soluble
 peptides. FIG. 10E is a bar graph that shows DNA repair in cells exposed or not to L-NMA and different peptide-conjugated beads. FIG. 10F is a bar
 graph that shows DNA repair in cells preincubated or not with KT5823 and
 preincubated with different peptide-conjugated beads.
FIG. 11 shows the inhibition of CAMP signaling by shared epitope
 genetically inserted into foreign proteins. FIG. 11A shows the amino acid
 sequence of the recombinant HBc proteins containing residues 65-79 of DR
 beta *0401 and DR beta *0402. FIG. 11B is a bar graph which shows DNA
repair in M1 cells preincubated overnight with HBc*0401 or HBc*0404.
FIG. 12 depicts the neuroprotective effect of shared epitopecontaining peptides. FIG. 12A depicts NG108-15 cells after 24 hours of incubation with poptide 65 78*0403
 with peptide 65-78*0402. FIG. 12B depicts NG108-15 cells after 24 hours of incubation with peptide 6578*0401. FIG. 12C is a bar graph that shows
 cell number and neurites in NG108-15 cells following exposure to
 different peptides.
FIGS. 13A-D presents data showing that shared epitope-containing peptides
 bind to and transduce signaling through the cell surface receptor
 calreticulin (Crt). FIG. 13A shows immunoblots of recombinant human
 calreticulin and HSP60 (eluted from peptide affinity chromatography).
 FIG. 13B shows surface plasmon resonance profiles. FIG. 13C shows that
 calreticulin anti-sense oligonucleotides suppress calreticulin surface
 expression. FIG. 13D shows that anti-calreticulin antibodies and
 anti-sense oligonucleotides block the cAMP-inhibitory effect of shared
epitope-containing peptides.
FIG. 14 ((SEQ ID NO: 29)) projects the amino acid sequence of the
 recombinantly produced calreticulin referenced in the instant
FIG. 15 depicts specific binding between recombinant calreticulin
 immobilized on a CM5 biosensor chip (Biacore) and shared epitope
 pentapeptides.
FIG. 16 shows competitive inhibition of shared epitopecalreticulin binding
                   ***DKCLA*** . FIG. 16A and FIG. 16B show that binding of
 by peptide
 14-mer, shared epitope-expressing peptides 65-78*0401 (FIG. 16A), and
 65-78*0404 (FIG. 16B) to calreticulin is inhibited by peptide

***DKCLA*** . FIG. 16C and FIG. 16D show dose-response analysis of the
inhibitory effect of ***DKCLA*** on calreticulin binding of 14-mer
 inhibitory effect of ***DKCLA*** on calreticulin binding of 14-mer peptides 65-78*0401 (FIG. 16C) and 65-78*0404 (FIG. 16D).
FIG. 17 shows that ***DKCLA*** blocks shared epitope-induced signaling in M1 cells incubated overnight with ***DKCLA*** and subsequently
FIG. 17 shows that
 stimulated with sepharose bead-coated peptide 65-79*0401 (hatched bars)
 or the control peptide, 65-79*0402 (open bars).
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 10728821 IFIPAT; IFIUDB; IFICDB
 METHODS AND COMPOSITIONS FOR THE TREATMENT OF DISEASES ASSOCIATED WITH
 SIGNAL TRANSDUCTION ABERRATIONS
 Holoshitz Joseph; Ling Song
Michigan, University of (55176)
US 2004236071 A1 20041125
 us 2004-786774
                            20040225
 US 2002-161959
                            20020603 CONTINUATION
                                                                       PENDING
 US 2004236071
                            20041125
 Utility; Patent Application - First Publication
 CHEMICAL
 APPLICATION
  14 Figure(s).
      1 depicts the impaired cAMP signaling exhibited in SEexpressing
 cells. FIG. 1A is a bar graph that shows PKA activation in different cell types, with or without forskolin stimulation. FIG. 1B shows PKA activation over time in different cells. FIG. 1C is a bar graph that shows relative PKA activation in different cells expressing different HLA
 DRB1 alleles.
FIG. 2 depicts the experimental results confirming that inducible DNA
 repair signaling is transduced through a cAMPdependent pathway. FIG. 2A
 is a graph which shows DNA repair in the presence of different
 concentrations of 2CA. FIG. 2B is a graph which shows DNA repair in the
 presence of different concentrations of PGE1. FIG. 2C is a graph which
 shows DNA repair in the presence of different concentrations of
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forskolin. FIG. 2D is a graph which shows DNA repair in the presence of
        different concentrations of 8-Br-cAMP. FIG. 2E is a graph which shows DNA repair in the presence of different concentrations of enprofylline. FIG.
        2F is a graph which shows DNA repair in the presence of different concentrations of H-89. FIG. 2G is a graph which shows DNA repair in the presence of different concentrations of 8-Br-cGMP. FIG. 2H is a bar graph
       which shows DNA repair in the presence or absence of SNAP.

FIG. 3 depicts the experimental results assessing the role of Gs
protein-coupled receptors in the inducible DNA repair signaling. FIG. 3A
shows DNA repair in HEK293/A2a transfectants in the presence of different
        concentrations of 2CA. FIG. 3B shows DNA repair in HEK293/A2b
         transfectants in the presence of different concentrations of 2CA. FIG. 3C
         is a bar graph that shows DNA repair in HEK293/A1 transfectants in the
        presence of different concentrations of 2CA and cAMP.
       FIG. 4 depicts the experimental results demonstrating that SEexpressing
        DRB1 alleles have a direct inhibitory effect on cAMPdependent signaling. FIG. 4A is a graph showing DNA repair over time in two transfected cell
        lines. FIG. 4B is a bar graph which shows DNA repair in different L cell
        transfectants.
       FIG. 5 is a bar graph which depicts the experimental results demonstrating
        that SE-containing peptides inhibit CAMP-mediated DNA repair.
       FIG. 6 is a bar graph which depicts the experimental results demonstrating
        the inhibition of cAMP-mediated inducible DNA repair by SE-containing
        peptide-conjugated beads.
       FIG. 7 is an alignment which depicts SE homologies in several proteins.
       FIG. 8 is a bar graph which depicts the inhibition of cAMPdependent DNA
       repair by SE-containing, non DR beta proteins.
FIG. 9 is a bar graph which depicts the results of experiments carried out
        to determine the SE motif.
       FIG. 10 presents a characterization of SE-triggered intracellular
        signaling. FIG. 10A shows CAMP levels in the presence of different
        concentrations of 2CA and after preincubation with different peptide-conjugated beads. FIG. 10B shows PKA activity following
        preincubation with different peptide-conjugated beads. FIG. 10C shows NO
        levels following preincubation with different peptide-conjugated beads.
        FIG. 10D shows cGMP levels following exposure to different soluble
        peptides. FIG. 10E is a bar graph that shows DNA repair in cells exposed
        or not to L-NMA and different peptide-conjugated beads. FIG. 10F is a bar
        graph that shows DNA repair in cells preincubated or not with KT5823 and preincubated with different peptide-conjugated beads.
       FIG. 11 shows the inhibition of cAMP signaling by SE genetically inserted into foreign proteins. FIG. 11A shows the amino acid sequence of the recombinant HBC proteins containing residues 6579 of DR beta *0401 and DR
        beta *0402. FIG. 11B is a bar graph which shows DNA repair in M1 cells
        preincubated overnight with HBC*0401 or HBC*0404.
       FIG. 12 depicts the neuroprotective effect of SE-containing peptides. FIG. 12A depicts NG108-15 cells after 24 hours of incubation with peptide
        65-78*0402. FIG. 12B depicts NG108-15 cells after 24 hours of incubation with peptide 65-78*0401. FIG. 12C is a bar graph that shows cell number and neurites in NG10815 cells following exposure to different peptides.
       FIGS. 13A-D presents data showing that SE-containing peptides bind to and
        transduce signaling through the cell surface receptor: calreticulin. FIG. 13A shows immunoblots of recombinant human calreticulin and HSP60 (eluted from peptide affinity chromatography). FIG. 13B shows surface plasmon resonance profiles. FIG. 13C shows that calreticulin anti-sense
        oligonucleotides suppress calreticulin surface expression. FIG. 13D shows
        that anti-calreticulin antibodies and anti-sense oligonucleotides block
        the cAMP-inhibitory effect of SEcontaining peptides.
       FIGS. 14 ((SEQ ID NO: 29)) projects the amino acid sequence of the
        recombinantly produced calreticulin referenced in the instant
        application.
      ANSWER 3 OF 3 USPATFULL on STN
         2003:140906 USPATFULL
         Methods and compositions for the treatment of diseases associated with
         signal transduction aberrations
         Holoshitz, Joseph, Ann Arbor, MI, UNITED STATES
         Ling, Song, Ann Arbor, MI, UNITED STATES
The Regents Of The University Of Michigan (U.S. corporation)
         US 2003096748
                                           20030522
                                    Α1
                                           20020603 (10)
         US 2002-161959
                                    Α1
         US 2001-295691P
                                     20010604 (60)
         Utility
         APPLICATION
LN.CNT 2986
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PRAI

INCL

INCLM: 514/012.000

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NCLS:
               530/359.000
IC
       [7]
       ICM: A61K038-17
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  63 FILES SEARCHED...
  67 FILES SEARCHED...
          4273 SE-CONTAINING MOTIF OR SE-CONTAINING PEPTIDE OR SHARED-EPITOPE
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RN
CN
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=> S L2 L5 87 L2

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=> S PRY<=2002 '2002' NOT A VALID FIELD CODE '2002' NOT A VALID FIELD CODE 3626920 PRY<=2002

=> S L5 AND L7 L8 43 L5 AND L7

=> D L6 1-68

ANSWER 1 OF 68 CAPLUS COPYRIGHT 2005 ACS on STN L6

2005:58062 CAPLUS AN

Calreticulin antagonist for the treatment of rheumatoid arthritis TI

IN

Holoshitz, Joseph; Ling, Song The Regents of the University of Michigan, USA PA

U.S. Pat. Appl. Publ., 84 pp., Cont.-in-part of U.S. Ser. No. 161,959. SO CODEN: USXXCO

DTPatent English LA FAN CNT

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2005013820	A1	20050120	US 2004-845407	20040513
US 2003096748	A1	20030522	US 2002-161959	20020603
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US 2001-295691P	P	20010604		

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2005:5204 CAPLUS AN

142:69949 DN

Nucleic acid molecules and encoded proteins associated with maize and TI their uses for plant improvement La Rosa, Thomas J.; Zhou, Yihua; Kovalic, David; Cao, Yongwei

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       Sorghum nucleic acids and encoded proteins and their uses improvement of
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       transgenic plants
       Kovalic, David K.; Zhou, Yihua; Cao, Yongwei
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       141:186003
       Rice nucleic acid molecules and encoded proteins and their uses for plant
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       La Rosa, Thomas J.; Kovalic, David K.; Zhou, Yihua; Cao, Yongwei; Wu, Wei;
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       Boukharov, Andrey A.; Barbazuk, Brad W.
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       U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S. Ser. No. 837,604. CODEN: USXXCO
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       EST and contig sequences of Drosophila melanogaster and their uses in
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IN Homburger, Sheila Akiko; Ebens, Allen James, Jr.; Erickson, Catherine Sue;

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Ruddy, David Andrew; Buchman, Andrew Roy
       Exelixis, Inc., USA
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       Gene expression profile in activated human CD4+ T cells useful for the
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       diagnosis and treatment of immune-related diseases
       Clark, Hilary; Hunte, Bridsell; Jackman, Janet; Schoenfeld, Jill; Willians, Mickey P.; Wood, William I.; Wu, Thomas D.; Bodary, Sarah
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       Genentech, Inc., USA
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       Gene expression profiles for activated natural killer cells and their use
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       for diagnosis and treatment of natural killer cell-related diseases
       Fong, Sherman; Dennis, Kathryn; Clark, Hilary; Chiu, Henry; Schoenfeld, Jill; Williams, P. Mickey; Wood, William I.; Wu, Thomas D.
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      Binary prediction tree modeling with many predictors and its uses in clinical and genomic applications
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      Nevins, Joseph R.; West, Mike; Huang, Andrew T.
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      Duke University, USA
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      diagnosis and prognosis
      Glinskii, Guennadi V.
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      Sidney Kimmel Cancer Center, USA
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      Nucleic acid and amino acid sequences relating to Moraxella catarrhalis
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      for diagnostics and therapeutics
      Breton, Gary L.
Genome Therapeutics Corporation, USA
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      U.S., 429 pp.
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      loihiensis reveals amino acid fermentation as a source of carbon and
      energy
      Hou, Shaobin; Saw, Jimmy H.; Lee, Kit Shan; Freitas, Tracey A.; Belisle,
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      Claude; Kawarabayasi, Yutaka; Donachie, Stuart P.; Pikina, Alla; Galperin, Michael Y.; Koonin, Eugene V.; Makarova, Kira S.; Omelchenko, Marina V.; Sorokin, Alexander; Wolf, Yuri I.; Li, Qing X.; Keum, Young Soo; Campbell, Sonia; Denery, Judith; Aizawa, Shin-Ichi; Shibata, Satoshi; Malahoff,
      Alexander; Alam, Maqsudul
Department of Microbiology, University of Hawaii, Honolulu, HI, 96822,
Proceedings of the National Academy of Sciences of the United States of
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      America (2004), 101(52), 18036-18041
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      Identification of 315 genes essential for early zebrafish development
      Amsterdam, Adam; Nissen, Robert M.; Sun, Zhaoxia; Swindell, Eric C.;
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      Farrington, Sarah; Hopkins, Nancy
      Center for Cancer Research and Department of Biology, Massachusetts
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      Institute of Technology, Cambridge, MA, 02139, USA
Proceedings of the National Academy of Sciences of the United States of
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CODEN: PNASA6; ISSN: 0027-8424
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Gerhard, Daniela S.; Wagner, Lukas; Feingold, Elise A.; Shenmen, Carolyn M.; Grouse, Lynette H.; Schuler, Greg; Klein, Steven L.; Old, Susan; Rasooly, Rebekah; Good, Peter; Guyer, Mark; Peck, Allicon M.; Derge, Jeffery G.; Lipman, David; Collins, Francis S.

The MGC Project Team NIU USA
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      Tang, Y. Tom; Yang, Yonghong; Wang, Zhiwei; Weng, Gezhi; Ma, Yunqing
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Bristol-Myers Squibb Company, USA
PCT Int Appl 139 pp
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Pfizer Products Inc., USA; Max-Delbrueck-Centrum Fuer Molekulare Medizin
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      expression
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      Whitehead Institute for Biomedical Research, USA
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      associated with pain and their use in screening for regulatory agents
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      The General Hospital Corporation, USA; Bayer AG PCT Int. Appl., 1017 pp.
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      improved properties
      Cao, Yongwei; Hinkle, Gregory J.; Slater, Steven C.; Chen, Xianfeng;
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      Goldman, Barry S.
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      John F.
      The Institute for Genomic Research, Rockville, MD, 20850, USA
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      Proceedings of the National Academy of Sciences of the United States of
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      America (2003), 100(9), 5455-5460
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       replacements responsible for the thermostability of Corynebacterium
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       Nishio, Yousuke; Nakamura, Yoji; Kawarabayasi, Yutaka; Usuda, Yoshihiro; Kimura, Eiichiro; Sugimoto, Shinichi; Matsui, Kazuhiko; Yamagishi, Akihiko; Kikuchi, Hisashi; Ikeo, Kazuho; Gojobori, Takashi
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       Fermentation & Biotechnology Laboratories, Ajinomoto Co., Inc., Kanagawa,
CS
        210-8681, Japan
       Genome Research (2003), 13(7), 1572-1579
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       CODEN: GEREFS; ISSN: 1088-9051
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       Cold Spring Harbor Laboratory Press
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        luminescens
       Duchaud, Eric; Rusniok, Christophe; Frangeul, Lionel; Buchrieser, Carmen; Givaudan, Alain; Taourit, Sead; Bocs, Stephanie; Boursaux-Eude, Caroline; Chandler, Michael; Charles, Jean-Francois; Dassa, Elie; Derose, Richard; Derzelle, Sylviane; Freyssinet, Georges; Gaudriault, Sophie; Medigue, Claudine; Lanois, Anne; Powell, Kerrie; Siguier, Patricia; Vincent, Rachel; Wingate, Vincent; Zouine, Mohamed; Glaser, Philippe; Boemare, Noel: Danchin, Antoine: Kunst, Frank
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       Noel; Danchin, Antoine; Kunst, Frank
        Laboratoire de Genomique des Microorganismes Pathogenes, Institut Pasteur,
CS
        Paris, 75724, Fr.
       Nature Biotechnology (2003), 21(11), 1307-1313
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        microorganism Streptomyces avermitilis
       Ikeda, Haruo; Ishikawa, Jun; Hanamoto, Akiharu; Shinose, Mayumi; Kikuchi, Hisashi; Shiba, Tadayoshi; Sakaki, Yoshiyuki; Hattori, Masahira; Omura,
ΑU
        Satoshi
        Kitasato Institute for Life Sciences, Kitasato University, Kanagawa,
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228-8555, Japan SO

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      Kari L.; Zyskind, Judith W.; Wall, Daniel; Trawick, John D.; Carr, Grant J.; Yamamoto, Robert; Forsyth, R. Allyn; Xu, H. Howard Elitra Pharmaceuticals, Inc., USA
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      Holoshitz, Joseph; Ling, Song
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      The Regents of the University of Michigan, USA
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      PCT Int. Appl., 97 pp.
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      Duchaud, Eric; Taorit, Sead; Glaser, Philippe; Frangeul, Lionel; Kunst, Frederik; Danchin, Antoine; Buchrieser, Carmen
Institut Pasteur, Fr.; Centre National De La Recherche Scientifique
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      Olek, Alexander; Piepenbrock, Christian; Berlin, Kurt
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      Epigenomics Ag, Germany PCT Int. Appl., 113 pp.
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        Clontech, USA
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     Peptide sequences comprising one or several protein binding units of the Ena/VASP family, and uses thereof
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     Fradelizi, Julie; Friederich, Evelyne; Golsteyn, Roy M.; Louvard, Daniel; Noireaux, Vincent; Sykes, Cecile
IN
      Centre National de la Recherche Scientifique, Fr.; Institut Curie
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      Human reproductive tract-specific nucleic acids and their encoded proteins
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      and antibodies
      Rosen, Craig A.; Barash, Steven C.; Ruben, Steven M.
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      Human Genome Sciences, Inc., USA
      PCT Int. Appl., 1297 pp.
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      WASP family protein fragments, and use thereof
Noireaux, Vincent; Prost, Jacques; Sykes, Cecile; Friederich, Evelyne;
Golsteyn, Roy M.; Louvard, Daniel
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      Centre National de la Recherche Scientifique, Fr.; Institut Curie
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      PCT Int. Appl., 161 pp.
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      Expressed sequence tags and encoded human proteins
      Dumas, Milne Edwards Jean-Baptiste; Jobert, Severin; Giordano, Jean-Yves
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      Genset, Fr.
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      Eur. Pat. Appl., 94 pp.
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         Expressed sequence tags from cDNA libraries derived from human mRNAs
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         having intact 5' ends and their encoded secreted proteins
         Tanaka, Hiroaki; Dumas Milne, Edwards Jean-Baptiste; Giordano, Jean-Yves;
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         Jobert, Severin; Bejanin, Stephane
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         Can. Pat. Appl., 163 pp.
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         Complete genomic sequence of Pasteurella multocida, Pm70
May, Barbara J.; Zhang, Qing; Li, Ling Ling; Paustian, Michael L.;
Whittam, Thomas S.; Kapur, Vivek
Department of Veterinary Pathobiology, University of Minnesota, St. Paul,
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         MN, 55108, USA
         Proceedings of the National Academy of Sciences of the United States of
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         ANSWER 55 OF 68 CAPLUS COPYRIGHT 2005 ACS on STN 2001:915773 CAPLUS
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         Genome sequence of the plant pathogen and biotechnology agent Agrobacterium tumefaciens C58
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        Agrobacterium tumefaciens C58
Goodner, Brad; Hinkle, Gregory; Gattung, Stacie; Miller, Nancy; Blanchard, Mary; Qurollo, Barbara; Goldman, Barry S.; Cao, Yongwei; Askenazi, Manor; Halling, Conrad; Mullin, Lori; Houmiel, Kathryn; Gordon, Jeffrey; Vaudin, Mark; Lartchouk, Oleg; Epp, Andrew; Liu, Fang; Wollam, Clifford; Allinger, Mike; Doughty, Dahlia; Scott, Charlaine; Lappas, Courtney; Markelz, Brian; Flanagan, Casey; Crowell, Chris; Gurson, Jordan; Lomo, Caroline; Sear, Carolyn; Strub, Graham; Cielo, Chris; Slater, Steven
Department of Biology, Hiram College, Hiram, OH, 44234, USA
Science (Washington, DC, United States) (2001), 294(5550), 2323-2328
CODEN: SCIEAS; ISSN: 0036-8075
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Wood, Derek W.; Setubal, Joao C.; Kaul, Rajinder; Monks, Dave E.;
Kitajima, Joao P.; Okura, Vagner K.; Zhou, Yang; Chen, Lishan; Wood,
Gwendolyn E.; Almeida, Nalvo F., Jr.; Woo, Lisa; Chen, Yuching; Paulsen,
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Peter; Clendenning, James; Deatherage, Glenda; Gillet, Will; Grant,
Charles; Kutyavin, Tatyana; Levy, Ruth; Li, Meng-Jin; McClelland, Erin;
Palmieri, Anthony; Raymond, Christopher; Rouse, Gregory; Saenphimmachak,
Channakhone; Wu, Zaining; Romero, Pedro; Gordon, David; Zhang, Shiping;
Yoo, Heayun; Tao, Yumin; Biddle, Phyllis; Jung, Mark; Krespan, William;
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      Cloning of microtubule-associated protein TPX2 cDNA and its therapeutic
      Europaisches Laboratorium Fur Molekularbiologie (Embl), Germany
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      characteristics for use in DNA replication methods
      Voss, Hartmut; Moeckel, Gerd; Kober, Ingo; Kilger, Christian
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      Lion Bioscience Ag, Germany
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      Ger. Offen., 152 pp.
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                            Wittmann, Torsten; Wilm, Matthias; Karsenti, Eric; Vernos, Isabelle
  ΑU
                            Cell Biology and Cell Biophysics Program, European Molecular Biology
  CS
                           Laboratory, Heidelberg, D-69117, Germany
Journal of Cell Biology (2000), 149(7), 1405-1418
CODEN: JCLBA3; ISSN: 0021-9525
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                            Rockefeller University Press
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TI Vacuolar localization of an Entamoeba histolytica homologue of the plasma
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AU Ghosh, S. K.; Rosenthal, B.; Rogers, R.; Samuelson, J.

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       CODEN: MBIPDP; ISSN: 0166-6851
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       Borrelia polynucleotides and antigenic polypeptides for use as Lyme
TI
       disease vaccines and diagnostics
       Choi, Gil H.; Erwin, Alice L.; Hanson, Mark S.; Lathigra, Raju Human Genome Sciences, Inc., USA; Medimmune, Inc.
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       PCT Int. Appl., 275 pp.
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        Loparev, Vladimir N.; Parsons, Joseph M.; Knight, Janice C.; Panus, Joanne Fanelli; Ray, Caroline A.; Buller, R. Mark L.; Pickup, David J.; Esposito,
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        Poxvirus Section, Viral Exanthems and Herpesvirus Branch, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Division of Viral and Rickettsial Diseases, Atlanta, GA, 30333, USA
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        Proceedings of the National Academy of Sciences of the United States of
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        Genomic sequence of a Lyme disease spirochaete, Borrelia burgdorferi Fraser, Claire M.; Casjens, Sherwood; Huang, Wai Mun; Sutton, Granger G.; Clayton, Rebecca; Lathigra, Raju; White, Owen; Ketchum, Karen A.; Dodson, Robert; Hickey, Erin K.; Gwinn, Michelle; Dougherty, Brian; Tomb, Jean-Francois; Fleischmann, Robert D.; Richardson, Delwood; Peterson, Jeremy; Kerlavage, Anthony R.; Quackenbush, John; Salzberg, Steven; Hanson, Mark; van Vugt, Rene; Palmer, Nanette; Adams, Mark D.; Gocayne, Jeannine; Weidman, Janice; Utterback, Teresa; Watthey, Larry; McDonald,
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      Hamilton O.; Venter, J. Craig
      Inst. Genomic Research, Rockville, MD, 20850, USA Nature (London) (1997), 390(6660), 580-586 CODEN: NATUAS; ISSN: 0028-0836
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      Characterization of the locus encoding the [Ni-Fe] sulfhydrogenase from
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      the archaeon Pyrococcus furiosus: evidence for a relationship to bacterial sulfite reductases
      Pedroni, Paola; Della Volpe, Anna; Galli, Giuliano; Mura, Giovanni M.;
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      pratesi, Claudio; Grandi, Guido
      Genetic Eng. and Microbiol Lab., ENIRICERCHE S.p.A., Donato Milanese,
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      Microbiology (Reading, United Kingdom) (1995), 141(2), 449-58 CODEN: MROBEO; ISSN: 1350-0872
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      Genes encoding homologs of three consecutive enzymes in the
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      butyrate/butanol-producing pathway of Clostridium acetobutylicum are
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      118:249098
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      Studies of the cloned 37-kDa subunit of activator 1 (replication factor C)
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      of HeLa cells
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Grad. Program Mol. Biol., Mem. Sloan-Kettering Cancer Cent., New York, NY,
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       10021, USĂ
      Proceedings of the National Academy of Sciences of the United States of
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      America (1992), 89(12), 5211-15
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      of the alpha giardin genes and transcripts in Giardia lamblia
      Alonso, Rogelio A.; Peattie, Debra A.
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      Dep. Trop. Public Health, Harvard Sch. Public Health, Boston, MA, 02115,
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       USA
       Molecular and Biochemical Parasitology (1992), 50(1), 95-104
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     Calreticulin antagonist for the treatment of rheumatoid arthritis
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     Holoshitz, Joseph; Ling, Song
The Regents of the University of Michigan, USA
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     U.S. Pat. Appl. Publ., 84 pp., Cont.-in-part of U.S. Ser. No. 161,959.
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     Sorghum nucleic acids and encoded proteins and their uses improvement of
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     Kovalic, David K.; Zhou, Yihua; Cao, Yongwei
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     Kovalic, David K.; Zhou, Yihua; Cao, Yonqwei
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     Sorghum nucleic acids and encoded proteins and their uses improvement of
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     Kovalic, David K.; Zhou, Yihua; Cao, Yongwei
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     Rice nucleic acid molecules and encoded proteins and their uses for plant
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     La Rosa, Thomas J.; Kovalic, David K.; Zhou, Yihua; Cao, Yongwei; Wu, Wei; Boukharov, Andrey A.; Barbazuk, Brad W.
IN
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      Rice nucleic acid molecules and encoded proteins and their uses for plant
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      Gene expression profile in activated human CD4+ T cells useful for the
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      Clark, Hilary; Hunte, Bridsell; Jackman, Janet; Schoenfeld, Jill;
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      Willians, Mickey P.; Wood, William I.; Wu, Thomas D.; Bodary, Sarah
      Genentech, Inc., USA
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      Binary prediction tree modeling with many predictors and its uses in
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      clinical and genomic applications
      Nevins, Joseph R.; West, Mike; Huang, Andrew T.
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      Gene expression profiles for activated natural killer cells and their use
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      for diagnosis and treatment of natural killer cell-related diseases
     Fong, Sherman; Dennis, Kathryn; Clark, Hilary; Chiu, Henry; Schoenfeld, Jill; Williams, P. Mickey; Wood, William I.; Wu, Thomas D.
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      Genentech, Inc., USA
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      PCT Int. Appl., 1731 pp.
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      Soybean nucleic acids and encoded proteins associated with transcription
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      La Rosa, Thomas J.; Zhou, Yihua; Kovalic, David K.; Cao, Yongwei
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      U.S. Pat. Appl. Publ., 15 pp., Cont.-in-part of U.S. Ser. No. 985,678,
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      Exelixis, Inc., USA U.S., 262 pp.
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      Use of patterns of gene expression to identify tissue types and in disease
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       Nucleic acid and amino acid sequences relating to Moraxella catarrhalis
       for diagnostics and therapeutics
       Breton, Gary L.
Genome Therapeutics Corporation, USA
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       Methods for diagnosis and treatment of vascular dysfunction and
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       Zlokovic, Berislav V.
Socratech, L.L.C., USA; The University of Rochester
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      Expression of microbial proteins in plants for production of plants with
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      Cao, Yonqwei; Hinkle, Gregory J.; Slater, Steven C.; Chen, Xianfeng;
      Goldman, Barry S.
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      Gene sequences useful for transformation and breeding of plants with
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      Edgerton, Michael D.; Chomet, Paul S.; Laccetti, Lucille B.
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      Expressed sequence tags from cDNA libraries derived from human mRNAs
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      having intact 5' ends and their encoded secreted proteins
      Tanaka, Hiroaki; Dumas Milne, Edwards Jean-Baptiste; Giordano, Jean-Yves;
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Genset, Fr.
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      Can. Pat. Appl., 163 pp.
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       Genes of antibiotic-synthesizing actinomycetes and their use in analysis
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       of gene expression profiles and gene discovery
       Omura, Satoshi; Ikeda, Jaruo; Ishikawa, Jun; Horikawa, Hiroshi; Shiba, Tadayoshi; Sakaki, Yoshiyuki; Hattori, Masahira
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       The Kitasato Institute, Japan; National Institute of Technology and
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       with protein tyrosine kinases and/or protein tyrosine kinase pathways in drug-sensitive and drug-resistant colon cells Huang, Fei; Fairchild, Craig R.; Lee, Francis Y.; Shaw, Peter Bristol-Myers Squibb Company, USA
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       PCT Int. Appl., 139 pp.
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       Differentially expressed nucleic acids and their encoded proteins
       associated with pain and their use in screening for regulatory agents
       Woolf, Clifford; D'Urso, Donatella; Befort, Katia; Costigan, Michael
The General Hospital Corporation, USA; Bayer AG
PCT Int. Appl., 1017 pp.
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     Genes that are differentially expressed during erythropoiesis and their
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     Brissette, William H.; Neote, Kuldeep S.; Zagouras, Panayiotis; Zenke,
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     Martin; Lemke, Britt; Hacker, Christine
Pfizer Products Inc., USA; Max-Delbrueck-Centrum Fuer Molekulare Medizin
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      Classification of lung carcinomas by analysis of patterns of gene
      Golub, Todd; Meyerson, Matthew; Bhattacharjee, Arindham; Staunton, Jane
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       Methods and compositions for the treatment of Alzheimer's disease and
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       other diseases associated with signal transduction aberrations
       Holoshitz, Joseph; Ling, Song
The Regents of the University of Michigan, USA
PCT Int. Appl., 97 pp.
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       Duchaud, Eric; Taorit, Sead; Glaser, Philippe; Frangeul, Lionel; Kunst, Frederik; Danchin, Antoine; Buchrieser, Carmen
Institut Pasteur, Fr.; Centre National De La Recherche Scientifique
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      inhibition of proliferation and antibiotic screening
      Wang, Liangus; Zamudio, Carlos; Malone, Cheryl; Haselbeck, Robert; Ohlsen, Kari L.; Zyskind, Judith W.; Wall, Daniel; Trawick, John D.; Carr, Grant
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      PCT Int. Appl., 1766 pp.
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Wang, Liangus; Zamudio, Carlos; Malone, Cheryl; Haselbeck, Robert; Ohlsen,
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      Essential genes in microorganisms and their use as targets for antisense
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      Wang, Liangus; Zamudio, Carlos; Malone, Cheryl; Haselbeck, Robert; Ohlsen, Kari L.; Zyskind, Judith W.; Wall, Daniel; Trawick, John D.; Carr, Grant J.; Yamamoto, Robert; Forsyth, R. Allyn; Xu, H. Howard
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      Elitra Pharmaceuticals, Inc., USA
       PCT Int. Appl., 1766 pp.
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      Measurement of DNA methylation for analysis of the toxicology of
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      Olek, Alexander; Piepenbrock, Christian; Berlin, Kurt
Epigenomics Ag, Germany
PCT Int. Appl., 113 pp.
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      ANSWER 35 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN
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Reagents and kits, such as nucleic acid arrays, for detecting the expression of over 10,000 Drosophila genes
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      Venter, J. Craig; Adams, Mark; Li, Peter W. D.; Myers, Eugene W.
      PE Corporation (NY), USA
PA
      PCT Int. Appl., 21 pp.
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      CODEN: PIXXD2
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      2002:173239 CAPLUS
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      Reagents and kits, such as nucleic acid arrays, for detecting the expression of over 10,000 Drosophila genes
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      Venter, J. Craig; Adams, Mark; Li, Peter W. D.; Myers, Eugene W. PE Corporation (NY), USA PCT Int. Appl., 21 pp.
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            Chenchik, Alex; Lukashev, Matvey E.
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            Clontech, USA
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            U.S. Pat. Appl. Publ., 57 pp., Cont.-in-part of U.S. Ser. No. 441,920.
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            2001:713681 CAPLUS
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            Peptide sequences comprising one or several protein binding units of the
TI
            Ena/VASP family, and uses thereof
           Fradelizi, Julie; Friederich, Evelyne; Golsteyn, Roy M.; Louvard, Daniel; Noireaux, Vincent; Sykes, Cecile
Centre National de la Recherche Scientifique, Fr.; Institut Curie
PCT Int. Appl., 109 pp.
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A2 20030502 EP 2001-917199 20010321

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            ANSWER 39 OF 43 CAPLUS COPYRIGHT 2005 ACS on STN
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            2001:453110 CAPLUS
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           WASP family protein fragments, and use thereof
Noireaux, Vincent; Prost, Jacques; Sykes, Cecile; Friederich, Evelyne;
Golstey, Roy M.; Louvard, Daniel
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